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| FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 0942.5460003/LEA | APPLICATION NO. 09/875,204 |
| | APPLICANT Heyneker et al. | |
| | FILING DATE June 5, 2001 | GROUP 1743 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE |
|---------------------|-----|--------------------|---------|-----------------|---------------------|---------------|-------------|
| [Signature] | AA1 | 4,170,625 | 10/1979 | Welch | [Handwritten marks] | | |
| | AB1 | 4,221,568 | 09/1980 | Boettger | | | |
| | AC1 | 4,871,683 | 10/1989 | Harris et al. | | | |
| | AD1 | 5,053,454 | 10/1991 | Judd | | | |
| | AE1 | 5,106,583 | 04/1992 | Raysberg et al. | | | |
| | AF1 | 5,288,468 | 02/1994 | Church et al. | | | |
| | AG1 | 5,288,514 | 02/1994 | Ellman | | | |
| | AH1 | 5,445,934 | 08/1995 | Fodor et al. | | | |
| | AI1 | 5,472,672 | 12/1995 | Brennan | | | |
| | AJ1 | 5,595,707 | 01/1997 | Copeland et al. | | | |
| | AK1 | 5,639,603 | 06/1997 | Dower et al. | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION |
|---------------------|-----|--------------------|---------|---------|---------------------|---------------|-------------|
| [Signature] | AL1 | 2 108 659 A | 05/1983 | UK | [Handwritten marks] | | Yes No |
| | AM1 | 2 194 176 B | 03/1988 | UK | | | Yes No |
| | AN1 | WO 99/65602 | 10/1999 | PCT | | | Yes No |
| | AO1 | | | | | | Yes No |
| | AP1 | | | | | | Yes No |

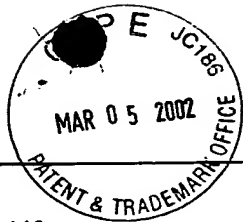
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|-------------|----|----------|---|
| [Signature] | AR | <u>1</u> | S. Narang, Ed., <i>Synthesis and Applications of DNA and RNA</i> ; Academic Press, Inc., New York (1987) Ch. 2 and 3, pp. 9-94. |
| | AS | <u>1</u> | |
| | AT | <u>1</u> | |

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| EXAMINER [Signature] | DATE CONSIDERED 9/03 |
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE |
|---------------------|-----|--------------------|---------|--------------|-------|---------------|-------------|
| ms | AA2 | 5,789,162 | 08/1998 | Dower et al. | | | |
| sy | AB2 | 5,807,525 | 09/1998 | Allen et al. | | | |
| | AC2 | | | | | | |
| | AD2 | | | | | | |
| | AE2 | | | | | | |
| | AF2 | | | | | | |
| | AG2 | | | | | | |
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FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION |
|---------------------|-----|--------------------|------|---------|-------|---------------|-------------|
| | AL2 | | | | | | Yes No |
| | AM2 | | | | | | Yes No |
| | AN2 | | | | | | Yes No |
| | AO2 | | | | | | Yes No |
| | AP2 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AS | 2 | |
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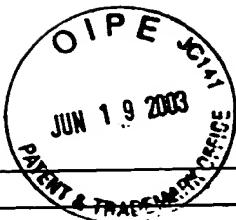
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| FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Attorney Docket No.: 18501-1-1 | | Application No.: Unassigned- | |
|---|---|--------------------------------|-----------------|------------------------------|------------------------------|
| | | Applicant: HEYNEKER et al. | | 09/875204 | |
| | | Filing Date: Herewith 6/5/2001 | | Group: Unassigned 1743 | |
| Page 1 | | | | | |
| U.S. PATENT DOCUMENTS | | | | | |
| Examiner Initial | Document No. | Date | Name | Class | Filing Date (If Appropriate) |
| A | 4,170,625 | 10/09/79 | Welch | | |
| B | 5,106,583 | 04/21/92 | Raysberg et al. | | |
| C | 5,288,468 | 02/22/94 | Church et al. | | |
| D | 5,288,514 | 02/22/94 | Ethman | | |
| E | 5,445,934 | 08/29/95 | Podor et al. | | |
| F | 5,472,672 | 12/05/95 | Brennan | | |
| G | 5,595,707 | 01/21/97 | Copeland et al. | | |
| H | 5,639,603 | 06/17/97 | Dower et al. | | |
| I | 5,789,162 | 08/04/98 | Dower et al. | | |
| J | 5,807,523 | 09/15/98 | Allen et al. | | |
| FOREIGN PATENT DOCUMENTS | | | | | |
| | Document No. | Date | Country | Class | Translation (Yes/No) |
| K | GB2 194 176B | 03/02/88 | UK | | |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | |
| L | S. Narang, Ed., <i>Synthesis and Applications of DNA and RNA</i> ; Academic Press, Inc., New York (1987) Ch. 2 and 3, pp. 9-94. | | | | |
| EXAMINER | LUDLOW | | DATE CONSIDERED | | 9/03 |

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All references found on IDS filed 3/5/2002

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

U.S. PATENT DOCUMENTS

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|---------------------|-----|--------------------|------|------|-------|-----------|-------------|
| | AA3 | | | | | | |
| | AB3 | | | | | | |
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| | AL3 | | | | | | Yes No |
| | AM3 | | | | | | Yes No |
| | AN3 | | | | | | Yes No |
| | AO3 | | | | | | Yes No |
| | AP3 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|---|----|---|---|
| | AR | 3 | Schuette, W.H., <i>et al.</i> , "System for Automated Fluid or Gas Delivery," U.S. Patent Application Serial No. 09/245,023, filed February 5, 1999. |
|  | AS | 3 | "PCOS-1 Spectra over Seven Cycles" [online], [retrieved on 1997-12-02]. Retrieved from the Internet: <URL: http://www.isbc.com/pcos/spectra7.htm > (2 pages). |
|  | AT | 3 | "PCOS-1 System Layout" [online], [retrieved on 1997-12-02]. Retrieved from the Internet: <URL: http://www.isbc.com/pcos/layout.htm > (1 page). |

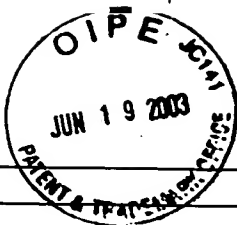
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| | AA1 | | | | | | |
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| | AH1 | | | | | | |
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| | AJ1 | | | | | | |
| | AK1 | | | | | | |

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|---------------------|-----|--------------------|--------|---------|-------|-----------|-------------|
| | AL1 | | | | | | Yes No |
| | AM1 | | | | | | Yes No |
| | AN1 | | | | | | Yes No |
| <i>W</i> | AO1 | GB 2 146 030 A | 4/1985 | GB | | | Yes No |
| | AP1 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|-----------|----|---|---|
| | AR | 1 | |
| <i>CM</i> | AS | 1 | Anderson, N., <i>et al.</i> , "Large Scale Oligonucleotides" [online], Large Scale Biology Corporation, [retrieved on 1997-12-02]. Retrieved from the Internet: <URL: http://www.lsb.com/pcos/descrip.html > (12 pages). |
| <i>W</i> | AT | 1 | "Supports for Oligonucleotide" [online], Solid Phase Sciences, [retrieved on 1998-03-26]. Retrieved from the Internet: <URL: http://www.solidphase.com/spscolumn.html > (2 pages). |

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|---------------------|-----|--------------------|------|------|-------|-----------|-------------|
| | AA2 | | | | | | |
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| | AJ2 | | | | | | |
| | AK2 | | | | | | |

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| | AL2 | | | | | | Yes No |
| | AM2 | | | | | | Yes No |
| | AN2 | | | | | | Yes No |
| | AO2 | | | | | | Yes No |
| | AP2 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|---|----|---|--|
|  | AR | 2 | "Milligen Peptide Synthesizer Manual," Chapter 3: Chemistry Fundamentals, pp. 35-76, March 1991, Milligen/Biosearch 9050 Peptide Synthesizer, Documentation No. 9050-0M-1.5. |
|  | AS | 2 | Hyman, David Edward, "A New Method of Sequencing DNA," Analytical Biochemistry 174, pp. 423-436 (April, 1988). |
|  | AT | 2 | Sindelar, L.E., <i>et al.</i> , "High-Throughput DNA Synthesis in a Multichannel Format," Nucleic Acids Research, 1995, 23: 982-987 (January, 1995). |

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